

CLAIMS

What is claimed is:

1. A fixer fluid having reduced fogging, comprising:
5 at least one phosphate ester surfactant and at least one cationic polymer,
wherein the fixer fluid is formulated such that the at least one phosphate ester
surfactant does not precipitate with the at least one cationic polymer.
2. The fixer fluid of claim 1, wherein the at least one phosphate ester
10 surfactant comprises at least one anionic phosphate ester surfactant.
3. The fixer fluid of claim 1, wherein the at least one phosphate ester
surfactant is selected from the group consisting of a nonylphenol ethoxylate
phosphate ester, a salt of a nonylphenol ethoxylate phosphate ester, an
15 aliphatic phosphate ester, a phosphated nonylphenoxy polyethoxy ethanol, and
a salt of ethyl-hexanol ethoxylated phosphate ester.
4. The fixer fluid of claim 1, wherein the at least one phosphate ester
surfactant comprises greater than or equal to approximately 2 moles of ethylene
20 oxide per mole of the at least one phosphate ester surfactant.
5. The fixer fluid of claim 1, wherein the at least one phosphate ester
surfactant is present from approximately 0.01% by weight ("wt%") to
approximately 10 wt% of a total weight of the fixer fluid.
25
6. The fixer fluid of claim 1, wherein the at least one cationic polymer
is present from approximately 0.2 wt% to approximately 10 wt% of a total weight
of the fixer fluid.
- 30 7. The fixer fluid of claim 1, wherein the at least one cationic polymer
comprises at least one of a polyethylene imine compound, polyallylamine, a

quaternized polyamine, a polymer of hexamethylene guanide, a polymer of hexamethylene biguanide, or mixtures thereof.

8. The fixer fluid of claim 1, wherein the at least one cationic polymer
5 comprises at least one polyguanidine compound.

9. The fixer fluid of claim 1, further comprising at least one acidic buffer.

10 10. The fixer fluid of claim 9, wherein the at least one acidic buffer comprises succinic acid.

11. The fixer fluid of claim 1, further comprising at least one cationic surfactant.

15

12. An inkjet ink having reduced kogation, comprising:
a colorant and at least one phosphate ester surfactant, wherein the at least one phosphate ester surfactant comprises at least one anionic phosphate ester surfactant.

20

13. The inkjet ink of claim 12, wherein the at least one phosphate ester surfactant is selected from the group consisting of a nonylphenol ethoxylate phosphate ester, a salt of a nonylphenol ethoxylate phosphate ester, an aliphatic phosphate ester, a phosphated nonylphenoxy polyethoxy ethanol, and a salt of ethyl-hexanol ethoxylated phosphate ester.

25

14. The inkjet ink of claim 12, wherein the at least one phosphate ester surfactant comprises greater than or equal to approximately 2 moles of ethylene oxide per mole of the at least one phosphate ester surfactant.

30

15. A method of producing a fixer fluid having reduced kogation, comprising:

combining at least one phosphate ester surfactant and at least one cationic polymer with an ink vehicle, wherein the at least one phosphate ester surfactant does not precipitate with the at least one cationic polymer.

16. The method of claim 15, wherein combining at least one phosphate ester surfactant and at least one cationic polymer with an ink vehicle comprises combining at least one anionic phosphate ester surfactant with the at least one cationic polymer.

17. The method of claim 15, wherein combining at least one phosphate ester surfactant and at least one cationic polymer with an ink vehicle comprises combining at least one phosphate ester surfactant selected from the group consisting of a nonylphenol ethoxylate phosphate ester, a salt of a nonylphenol ethoxylate phosphate ester, an aliphatic phosphate ester, a phosphated nonylphenoxy polyethoxy ethanol, and a salt of ethyl-hexanol ethoxylated phosphate ester and the at least one cationic polymer.

18. The method of claim 15, wherein combining at least one phosphate ester surfactant and at least one cationic polymer with an ink vehicle comprises combining at least one phosphate ester surfactant having greater than or equal to approximately 2 moles of ethylene oxide per mole of the at least one phosphate ester surfactant and the at least one cationic polymer.

19. A fixer fluid having reduced kogation, comprising:
at least one amphoteric phosphate ester surfactant and at least one cationic polymer, wherein the fixer fluid is formulated such that the at least one amphoteric phosphate ester surfactant does not precipitate with the at least one cationic polymer.

20. The inkjet ink of claim 19, wherein the at least one amphoteric phosphate ester surfactant comprises an organo phosphate surfactant.

21. The fixer fluid of claim 19, wherein the at least one amphoteric phosphate ester surfactant is present from approximately 0.01% by weight ("wt%") to approximately 10 wt% of a total weight of the fixer fluid.

22. The fixer fluid of claim 19, wherein the at least one cationic polymer is present from approximately 0.2 wt% to approximately 10 wt% of a total weight of the fixer fluid.

23. The fixer fluid of claim 19, wherein the at least one cationic polymer comprises at least one of a polyethylene imine compound, polyallylamine, a quaternized polyamine, a polymer of hexamethylene guanide, a polymer of hexamethylene biguanide, or mixtures thereof.

24. The fixer fluid of claim 19, wherein the at least one cationic polymer comprises at least one polyguanidine compound.